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APPLICATION NO.	F	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,917	917 07/22/2003		Stefan R. Kirsch	07508-046002	7113
26161	7590	01/28/2005		EXAMINER	
FISH & R	ICHARD	SON PC	BUI, BRYAN		
225 FRANKLIN ST BOSTON, MA 02110			ART UNIT	PAPER NUMBER	
B051011,	1411 021			2863	
			DATE MAIL ED: 01/28/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/624,917	KIRSCH ET AL.			
Office Action Summary	Examiner	Art Unit			
	Bryan Bui	2863			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status		•			
 1) ⊠ Responsive to communication(s) filed on 22 Ju 2a) ☐ This action is FINAL. 2b) ☒ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examine	r election requirement.				
10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Expression of the second should be accomplished as a second should be accomplished.	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119		,			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 102403.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	v (PTO-413) ate Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lockhart et al (US 6,226,547) in view of Shapiro et al (US 5,645,065).

Lockhart et al discloses the features of claim invention comprising: a system for locating a sensor in tissue (typically in a catheter) for determining the position, orientation (column 2, lines 37-54); a plurality of magnetic field sources, at least one magnetic field sensor, wherein a combination of magnetic field sensor (18, magnetic field transducer of coil type) and magnetic field source (19, reference magnetic field

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transducer of coil type) for generating a unique (independent, individual) measured magnetic field value (column 4, lines 5-36); a processor, configured to receive and iteratively process the unique measured magnetic field values (column 4, line 39 to column 5, line 12). Lockhart et al do not discloses a probe whose gain (amplitude), position, and orientation affects the unique measured magnetic field values corresponding to determine a system gain factor indicative of the gain of the probe and a plurality of location factors indicative of the position and orientation of the probe. Shapiro et al discloses a catheter depth, position and orientation location system include a probe whose gain (amplitude), position, and orientation affects the unique measured magnetic field values corresponding to determine a system gain factor indicative of the gain of the probe and a plurality of location factors indicative of the position and orientation of the probe (column 9, lines 9-67 and figure 5B). It would have been obvious to one of ordinary skill in the art to modify Lockhart et al' system to include external probe having gain (amplitude), position, and orientation affects the unique measured magnetic field values corresponding to determine a system gain factor indicative of the gain of the probe and a plurality of location factors indicative of the position and orientation of the probe such disclosed in Shapiro et al (column 9, lines 9-67; the position and orientation of probe showed in figure 5B) to make a system more accurate.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryan Bui whose telephone number is 571-272-2271.

The examiner can normally be reached on M-Th from 7am-4pm, and Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BB

1/26/05

BRYAN BUI PRIMARY EXAMINED